

MINING SITUATION IN OREGON IS SHOWING MARKED ACTIVITY

Hydraulic Operations in State Indicate Better Outlook for Future.

SOME MINES REOPEN

Million Receipts of Mint and Smelters at San Francisco Show Gain in Gold and Silver.

No changes of moment in the mining situation in Oregon are noted by Charles G. Yale of the United States geological survey for the first six months of 1916. The million receipts of the mint and smelters at San Francisco show that the output of gold has increased \$107,000 and that of silver 14,000 ounces in the first five months of 1916 over the output of the corresponding period in 1915.

The Powder River Gold Dredging company, which in the first half of 1915 had but one dredge operating near Sumpter, Baker county, has been working with two dredges during the first six months of 1916. With the exception of three deep mines, all in Baker county, this is the largest gold-mining enterprise in Oregon.

Properties of the Cougar Mining company, near Sumpter, have been placed under a lease to the United Gold Mining company of Spokane, Wash. In addition to the 200 ton mill, tube mills and a cyanide plant are to be installed.

The Queen of Bronze copper mine, which ships its ore from Waldo by team to Grants Pass and thence by rail to smelters at Kennett and Tacoma, has been sold to the Teelby interests, who are now building the California & Oregon Coast railway toward Crescent City, Cal.

After years of idleness work has been resumed on the Iron Dyke mine at Cooperfield, which is shipping ore to Colorado for reduction.

The Black Eagle property, near Grants Pass, has been sold to men who are to erect a 50-ton mill. There is no hydraulic mining activity in the state, particularly in the counties along the northwest border of California. Many old properties have been reopened, and new ones have been put in shape for working.

Productive Mines Listed. The most productive deep mines in Oregon continue to be those of the Cornucopia Mining company and Baker Mines company, in the Clatsop county district, Baker county, Commercial Mining company, in the Mormon Creek district, Columbia Gold Mines company in the Clackamas district, Homestead Iron Mine, in the Iron Dyke district, and Humboldt Consolidated Gold Mines, in Malheur county.

The largest producers among the placer mines are the Powder River Dredge company in the Clackamas district, Baker county; Columbia Mines placer, in the Placer district, Josephine county; Sterling Hydraulic, in the Forest creek district, Clatsop county; and Layton, in the Appleton district, Jackson county. Baker continues to be the most productive county in the state, containing nearly all the larger mines.

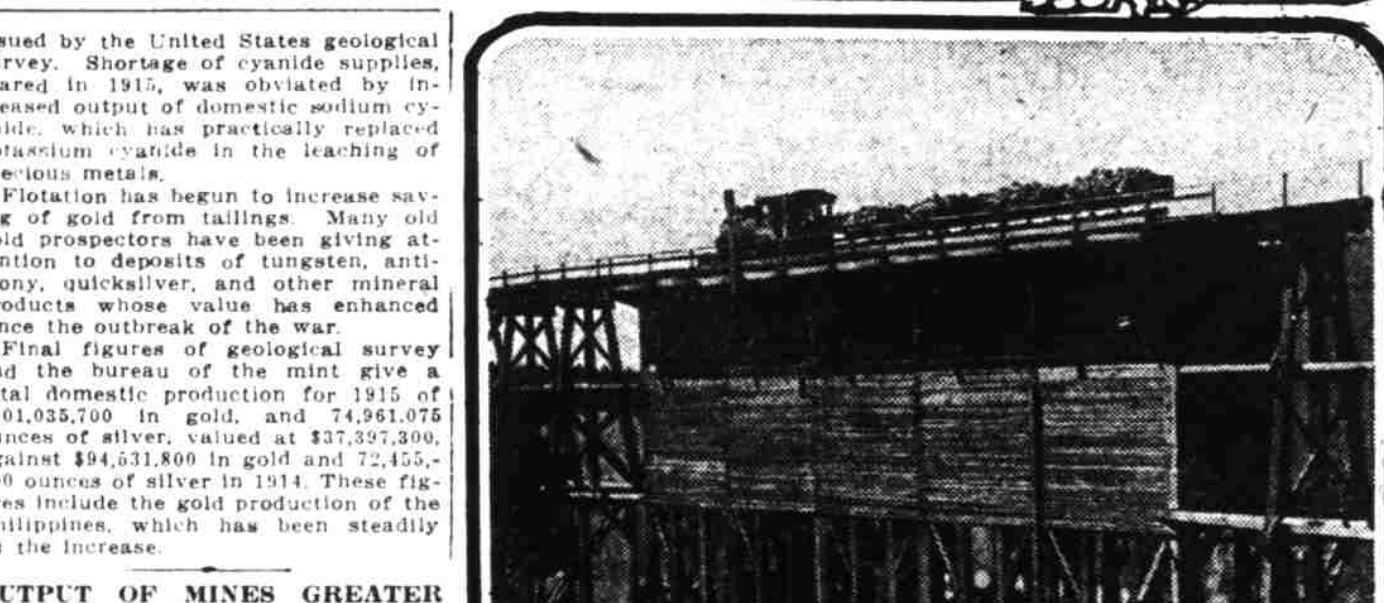
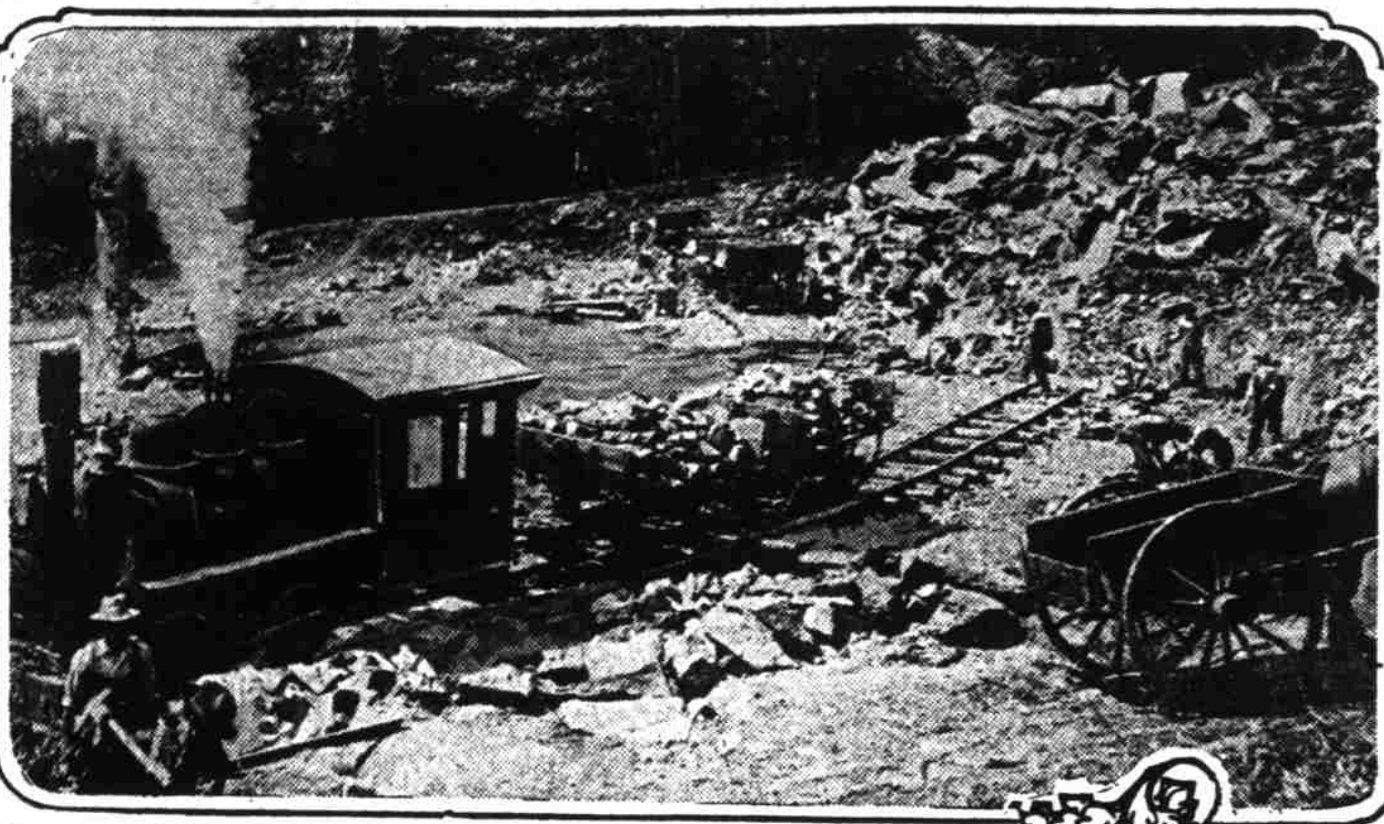
ALASKA COPPER ON INCREASE

Geological Survey Reports Great Activity in Northern Mines. The Alaska mining industry will have a very prosperous year in 1916, according to Alfred H. Brooks of the United States Geological survey, covering operations during the first six months of the year. Copper mining probably will show the greatest advances. About 15 mines are now shipping ore and developments are being pushed on others, indicating that the industry may become producers before the end of the year. There is every reason to believe, therefore, that the Alaska copper output for 1916 will be greater than that for the previous year. The gold lode mines of Alaska will also make a larger production this year than last, but it is not now expected that the placer-mining industry will show any marked increase. The shipment of antimony from Alaska is continuing, and some tungsten ores have already been shipped from the Fairbanks district.

TOTAL PRODUCTION REPORTED

Geological Surveys and Bureau of Mint Figures Gain. The precious metal mining industries continued active during the first six months of 1916 practically all important mines and mills operating at full capacity, according to a statement just

DYNAMITING FISH IN AN OLD SEA BED



OUTPUT OF MINES GREATER. Lead and Zinc Ores Are Receiving More Attention. Reports received by the United States geological survey show that the mine production of lead and zinc ores during the first six months of 1916 was much larger than that of any preceding months.

Scenes at the cement company quarry at Bridgeport. Top—At work in the quarry after a blast. Bottom—The loading bins near the quarry.

Dallas, Or., July 8.—Operations are well under way now at the quarry of the Oregon Portland Cement company at Bridgeport, near Dallas. From 40 to 50 men are employed at the quarry, where the supply of lime rock is said to be practically inexhaustible.

About 700 pounds of dynamite are used in a single blast every week, and the result of such a blast is the displacement of a ledge of rock about 200 feet long, and from 15 to 20 feet high, which are broken into pieces that will weigh from 10 to 50 tons each. These are in turn split up with wedges and powder and broken by

sledges used by the workmen until they can be loaded onto the train by hand and taken to the bunkers, where they are loaded on the Southern Pacific freight train and shipped to Oswego to be pulverized and baked in the kilns there. Then the rock is mixed to the proportion of two to one with a similar product from Roseburg, which produces a better grade of cement than either kind alone would do.

Fossil remains in the strata of rock in this quarry prove that this was once a sea bottom, as many curious sea shells, fishes, fish eggs, and remains of vegetable life are found in the solid rock.

Ber Harrison mine in the Sumpter district and will spend most of the summer in inspections and researches.

Asbestos Shipped East. Twenty tons of asbestos has been shipped east during the last few days from the Grant county mines through Baker. The shipment is said to have been worth \$3000.

Refer Ordinance to Vote of the People. Plan is to Cooperate in Repairing Dixie Mountain Road From Baker to John Day Valley.

Baker, Or., July 8.—Members of the county courts of Baker and Grant counties with 20 business men from Baker and nearly as many from John Day valley points, met today at Austin, intermediate point between Baker and Canyon City. Agreement was reached for cooperation between the two counties to repair the Dixie mountain road, which will give an excellent highway all the way from Baker to the John Day valley. It has nothing to do with the state road up John Day valley and over the divide to Snake river.

PRIZE WINNERS FINISH SHORT COURSE WORK AT O. A. C.



Young Oregonians who won short courses at state agricultural college.

Oregon Agricultural College, Corvallis, July 8.—Opportunities to hear leading state officers and noted educators were afforded the girls and boys prize winners who have finished their two weeks' short course at the Agricultural college and returned to their homes in different parts of Oregon. Governor Withycombe, President Kerr, O. M. Plummer, President Ackerman of the State normal, Assistant State Superintendent Carlton, State

WOMEN ARE GETTING OLDER AND THE MEN YOUNGER, HE SAYS

Portland Boy Mathematical Expert Amuses Self Toying With Dry Figures.

TABLES ARE COMPILED

He Can Tell the Average Ages of All Students in Several Departments of the University.

University of Oregon, Eugene, Or., July 8.—A Portland boy with a taste for statistics has just compiled for the University of Oregon a series of tables of data concerning the institution which the authorities are very glad to have, but which they have never felt able to have worked up by regular statisticians. Fred Heithausen, of 299 Williams avenue, Portland, a junior in the school of commerce, has labored all spring adding up long columns of figures and computing averages, and he has done it for the love of the work, and to satisfy his own intellectual curiosity. He is taking no work in statistics nor in any other course in which he could expect university credit for his efforts.

Averages Figured Out. Heithausen, with true German thoroughness, has figured out to a day the average ages of women and men students at different stages of the university's history, their average age on entering college, the youngest and oldest members of the various classes, the percentage coming from public high schools and from private schools, the length of time they have stayed in the university on the average, the quality of their work as indicated by the "marks" received, the various parts of the state which have furnished the most students at different times, and the different university courses they have elected.

The women are getting older and the men younger, Heithausen finds. In 1905 the average age of the freshman girl on entrance was 19.42 years; in 1910, 19.55 years; and in 1915, 19.74 years. For the same years the men's ages had run 20.38, 20.85 and 19.73. The men and the women nowadays are almost precisely the same age, according to Heithausen's figures.

Keen Interest Shown. Heithausen's interest in compiling these tables was largely to satisfy himself whether certain "tendencies of the times" that he had heard discussed really existed or not. He had heard that the college students of today was much younger than the student of some years ago. Conclusion number one—nothing in it.

In the three periods covered by Heithausen's figures the student population has nearly doubled twice. Excluding medical school, law school, extension students and the like, the university had in 1905, 1910 and 1915 respectively, 281 students, 491 students, and 818 students. In the little old "freshwater college" of 10 years ago it was easier for the freshman to get high marks than it is the case today in the larger university with its harder courses and stricter standards.

Neither men or women have been able to keep up with the pace set by the faculty with the same degree of ease. In 1905 the standings of the first year men in their coursework averaged 4.121 (perfect being represented by 1, and failure by 5); in 1910 the standard had risen until the average freshman student was rated at 3.920 and 1915 his rank was 3.239. Among the women the figures are 2.095, 2.570 and 2.868.

Many Facts Deducted. In 1905, 26.5 per cent of the men and 24.2 per cent of the women came from private preparatory schools. Now all but 7 per cent of the men come from the public high schools. The social change brought about by the growth of the public high schools in Oregon has not as yet affected the women in so great a degree, as 12 per cent of the girls still come from private preparatory schools. Portland furnished only 16 per cent of the men and 15 per cent of the women in 1905. In 1910 the percentages from Portland were 24 and 27 and in 1915 17 and 30. Portland passed Eugene as the source of the most students in 1910, sending 24 and 27 per cent to Eugene's 20 and 19. Eugene made another spurt in the succeeding years and now stands close to Portland at the head of the list. Students registered as "majors" in

STATE RAISES MORE FISH



Part of the flume at the new Butte falls fish hatchery.

Butte Falls, Or., July 8.—The new state fish hatchery here is considered to be especially advantageously situated inasmuch as its water supply comes from two sources the Big Butte creek and Ginger creek. Each of these creeks carries enough water to supply the number of ponds where the fish will be hatched.

The water from Big Butte is taken through 2400 feet of flume 1350 feet of ditch and is emptied into Ginger creek just above the ponds. The state appropriated about \$900 for the construction work and the residents of Butte Falls contributed the rest of the necessary funds. J. W. Berrian, one of the state's experts on fish culture, supervised the work.

harvested here this year. Every meadow is a mass of strawberry plants and thousands of berries are being preserved by the homesteaders. The berries are much larger this year than ever before.

DEATHS OF NORTHWEST

Mrs. Ketchum, The Dalles. The Dalles, Or., July 8.—Mrs. Amanda Ketchum, a pioneer of 1845, died at the home of her daughter, Mrs. John Mann, in this city, yesterday, after a few days' illness. Mrs. Ketchum was the mother of Frederick, of Three Mile, and of Arthur Friedley, of Hood River. The funeral services will be held tomorrow at Crandall's chapel, and the interment will take place in the local I. O. O. F. cemetery.

Mrs. Broughton, Baker. Baker, Or., July 8.—The remains of Mrs. Jennie Broughton, who died here Thursday, were sent to Caldwell, Idaho, former home of Mrs. Broughton. Mrs. Broughton was the wife of G. M. Broughton, a southern Idaho pioneer, who has been a resident of this county since last spring. She was 82 years of age, and born at Coldwater, Mich. Two sons and three married daughters survive besides the husband.

Mrs. Malone, Antelope. The Dalles, Or., July 8.—Forty Antelope residents were here Friday to attend the funeral of Mrs. John Malone. Services were held at the Catholic church, at 9 o'clock. There was a special floral vehicle. Mrs. Malone was formerly Elizabeth Brogan, daughter of John Brogan, a well known Antelope rancher.

Mrs. Robert Ellison Dies. Albany, Or., July 8.—Mrs. Robert Ellison, of Los Angeles, Cal., died in that city yesterday morning, according to a telegram received here yesterday by W. A. Kimesy from his wife, who was at her sister's bedside. Mrs. Ellison was also a sister of Mrs. Sarah Hulbert, of this city, and Cooper Turner, of Lebanon. Mrs. Ellison was here on a visit last summer and made many friends in this city.

William Woodworth, Winlock. Winlock, Wash., July 8.—William Woodworth, 62 years of age, and for years a resident of this place, is dead. He was born near Lake Umbagog, in Vermont, crossing the plains in 1850. The remains were sent to Portland for burial.

Chautauqua Is Open. Albany, Or., July 8.—A large opening day attendance greeted the beginning of the ninth annual Chautauqua in Bryant's park yesterday afternoon. The morning was taken up with the usual classes. At 1:30 the Sunday school parade moved through the streets and was the largest affair of its kind ever held here. Nearly 1000 children took part. Prizes were awarded as follows: First prize, for largest number in line, United Presbyterian; second, most unique feature, Baptist; third, best display of banners, First Presbyterian; fourth, best interpretation of a subject, Evangelical, representing the subject "Joy." The patriotic program in the evening was a success.

Strawberries Are Plentiful. La Pine, July 8.—An extraordinarily big crop of wild strawberries is being

CHURCH OF CHRIST IN OREGON WILL MEET AT TURNER CAMP PLACE

Ten-Acre Campus, Shade Trees and River All Add Beauty to Site.

NOTED SPEAKERS ARE DUE

Ministers and Bible Schools Will Have Day and Educational Work Will Be Considered During the Week.

Turner, Or., July 8.—The annual convention of the Church of Christ in Oregon will be held next week at Turner, beginning tomorrow. A 10 acre campus, big fir trees for shade, a beautiful river on three sides of it, make a most inviting spot for a summer meeting.

The Christian church, sometimes known as Disciples of Christ, claims about 20,000 members in Oregon, and 126 churches. They meet annually at Turner. A tabernacle seating 2000 people is owned by them here and it is usually well filled on Sundays. A little city of white tents is located on the campus during the convention. A lodge containing 18 rooms accommodates those who do not care to tent. A good restaurant feeds the visitors who do not care to cook on a campfire. The buildings and grounds are electric lighted so that people here have almost the same conveniences as at home.

The program for the week is comprehensive of the whole work of the church. The services on Sundays are purely devotional and inspirational. On Monday the women's work is reviewed. On Tuesday the missionary work in the state is taken up. Wednesday the ministers hold a session. Thursday the Bible schools have their day. On Friday educational work is considered. On Saturday the Christian Endeavorers hold forth.

Several hundred delegates are expected. Noted speakers from eastern cities will be here. A great gathering is expected.

Dufur Entertains Masons.

The Dalles, Or., July 8.—Forty-four members of the local lodge of Masons, motoring to Dufur last night, were royally entertained by Dufur members of the order. The Dufur lodge put on the third degree work. A banquet was served, at which members of the local lodge and of the Dufur lodge delivered short addresses. The Dufur lodge of Masons, which numbers 129 in enrollment, is one of the youngest lodges in the state. More than half the male inhabitants of Dufur belong to the Masonic order.

GOOD NEWS FOR THE H.A.F.

A new hearing device being shown. The new improved Multi-tone Auriphone will be demonstrated at our store by an expert direct from the factory.

FREE DEMONSTRATION At our Store.

2 Days Only Monday and Tuesday July 10, 11, From 9 a. m. to 6 p. m.

The Multi-tone Auriphone is the newest of hearing devices and is a great help for the deaf. Each instrument is adjusted to the individual's personal requirements. Remember, we would not allow such a demonstration in our store unless we had investigated the instrument thoroughly. An expert from the factory will be with us this week. All interested should call and test this wonderful instrument. The fourth floor

WOODARD, CLARKE & CO. Alder St. and West Park

GOODYEAR TIRES advertisement featuring a large image of a tire and text describing its benefits: 'ALMOST anyone can recognize by their ear-marks the peculiar characteristics of Goodyear No-Hook Tires. You can easily recognize their greater strength and sturdiness of construction. And you can see that they are lively and pliable to remarkable degree. The resilience flows out of the fact that their stoutness is built up by layer upon layer of purest rubber and the finest fabric manufactured. Two things to be dreaded are tires that are skimped, and tires impregnated with mineral substitutes for rubber. In No-Hook Tires you get both the size that spells safety and the purity of rubber that ensures resilience.'